CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER: 20-375/S-016

CLINICAL PHARMACOLOGY BIOPHARMACEUTICS REVIEW

Supplemental New Drug Application - Review Office of Clinical Pharmacology and Biopharmaceutics

NDA:

20-375 SE1-016

Type of Submission:

Efficacy Supplement

Brand Name:

Climara™

Generic Name:

Estradiol Adhesive Transdermal System

Formulation(s);

Adhesive Transdermal System

Strength(s); Nominal Delivery Rate:

6.5 cm² 0.025 mg/day

Route

Transdermal

Sponsor:

Berlex Laboratories, Inc.

Submission Date:

June 2, 2000

Reviewer:

Ronald Evan Kavanagh, B.S. Pharm., Pharm.D., Ph.D.

SYNOPSIS:

Climara™ is an approved controlled release transdermal product containing estradiol.

This efficacy supplement provides for the indication, 'treatment of moderate to severe vasomotor symptoms associated with menopause', for the lowest strength of 6.5 cm² (0.025 mg/day). This strength has previously been approved for treatment of osteoporosis.

The pharmacokinetics and biopharmaceutics for this strength were submitted in an earlier supplemental NDA (sNDA 20-994 SE-011) filed with the Division of Endocrine and Metabolic Drug Products (submission date May 1, 1998). That submission was reviewed by this reviewer.

No new human pharmacology or biopharmaceutic data was included in the present submission.

The formulation used in studies reported in the present efficacy supplement is currently approved and is not the proposed new formulation, as outlined in chemistry supplemen ————— Consequently, no additional clinical pharmacology, pharmacokinetic, or bioavailability studies are required.

LABELING:

The pharmacokinetics of the 6.5 cm² (0.025 mg/day) strength is currently described in the label and there are no changes proposed.

A section on adhesion is included in the clinical pharmacology section. The proposed labeling for this section appears to have been submitted with NDA 20-375 labeling supplement, SLR-014. The cover letter for supplement SLR-014 refers to an open label adhesion study, and indicates that the final study report will be submitted to IND 40,928. The final study report for the adhesion study (Berlex report no. 99001 Jan 26, 1999) was found in IND 40,928 N-054 IM letter date 2/4/99, date received 2/9/99. An amendment to SLR-014 containing the final study report has been requested and the adhesion labeling will be reviewed under supplement SLR-014.

RECOMMENDATIONS:

The Office of Clinical Pharmacology and Biopharmaceutics/Division of Pharmaceutical Evaluation II (HFD-870) (OCPB/DPEII) has evaluated NDA 20-375 SE1-016 dated June 2, 2000. Based on this review, the Division has determined that this application is acceptable to OCPB/DPEII.

The sponsor has been requested to submit an amendment to NDA supplement 20-375 SLR-014, containing the final study report for the adhesion study (Berlex report no. 99001 Jan 26, 1999). The labeling regarding adhesion will be updated under supplement SLR-014 upon review of this data.

COMMENTS F	OR THE SP	DNSOR:		
None.			-	
LABELING CO	MMENTS FO	OR THE SPONSOR:		-
<u>SIGNATURES</u>				
Ronald Evan K	avanagh, B.S	. Pharm., Pharm.D., Ph.D.		Date
Division of Pha Office of Clinic		Evaluation II ogy and Biopharmaceutics		
Ameeta Pareki	n, Ph.D.	· · · · · · · · · · · · · · · · · · ·		Date
Team Leader Division of Pha	rmaceutical E	Evaluation II ogy and Biopharmaceutics		. ·
OCPB Briefing	Meeting:	Not Applicable.		
CC:				
NDA #30-375 HFD-580 HFD-870	(AllenS, Sla	rig., 1 copy) nughter, Price, Moore) nvanagh, Malinowski)	· 	• • • • • • • • • • • • • • • • • • •

(Barbara Murphy)

CDR

Ron Kavanagh 2/23/01 10:34:47 AM 3IOPHARMACEUTICS

Ameeta Parekh 2/26/01 04:25:35 PM BIOPHARMACEUTICS I concur.